Sl No	Chainage From	Chainage To	Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
	Near : Ch 270		Cum	1.00	11.00			1.55	0.15	2.56	
Total Quantity			Cum							789.86	

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

NCC LIMITED BANGALORE

CONTRACTOR

Infra Support Engineering Consultants Pvt. Ltd.

PMC

Bengaluru

BBM

NCC LIMITED

BRUHAT BENGALURU MAHANAGAR PALIKE

Whitetopping of road from Shesadripuram First Grade College to Aroma Bakery Junction via 3rd A cross Road,1st A Main Road,16th B Cross Road

BOQ Item no. 48 2/5/23, 18/5/23 **MEASUREMENT SHEET**

Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 ems. thick, well compacted, for coping. Including cost of all materials, labour, HOM, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (PW,P& IWTD SR 2018-19 P-255, I-34.11)

Sl No	Chainage		Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
	From	To									
	For Restoration Works										
	Stretch : From Vishnu Park to Sandeep Unnikrishnan Road										
		30.00	CUM	1.00	30.00			1.50	0.10	4.50	
	30.00	60.00	CUM	1.00	30.00			1.50	0.10	4.50	
	60.00	90.00	CUM	1.00	30.00			1.50	0.10	4.50	
	90.00	120.00	CUM	1.00	30.00			1.50	0.10	4.50	
	120.00	150.00	CUM	1.00	30.00			1.50	0.10	4.50	
	150.00	180.00	CUM	1.00	30.00			1.50	0.10	4.50	
	180.00	210.00	CUM	1.00	30.00			1.50	0.10	4.50	
	210.00	240.00	CUM	1.00	30.00			1.50	0.10	4.50	
	240.00	270.00	CUM	1.00	30.00			1.50	0.10	4.50	
	Total Quantity		**Cum**							**40.50**	

Cafe Kaveri

A.E.E. (Project)

NCC LIMITED BANGALORE

CONTRACTOR

India Support Engineering Consultants Pvt. Ltd. Bengaluru

PMC

BBM

NCC LIMITED

BRUHAT BENGALURU MAHANAGAR PALIKE

Whitetopping of road from Shesadripuram First Grade College to Aroma Bakery Junction via 3rd A cross Road,1st A Main Road,16th B Cross Road

MEASUREMENT SHEET

BOQ Item no. 28 14/2/23, 21/2/23, 10/4/23, 27/4/23, 29/4/23 6/5/23

KSRRB M2200-5.9. Providing and laying Design mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69Cum and fine aggregates @ 0.46Cum, with superplastisiser @31ts confirming to IS91 03-1999 Reaffirmed-2008 including cost of materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. - i) Upto 5 m height.

Sl No	Chainage From	Chainage To	Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
	For HDPE Chambers -RAFT										
	Stretch : CHIKKBOMMSANDRA JUNCTION TO DAIRY CIRCLE JUNCTION -LHS & RHS										
	Ch:1197		Cum	2.00	2.45			1.10	0.15	0.81	
	Ch:1369		Cum	2.00	2.45			1.10	0.15	0.81	
	Ch:1440		Cum	2.00	2.45			1.10	0.15	0.81	
	Ch:1560		Cum	2.00	2.45			1.10	0.15	0.81	
	Ch:1645		Cum	2.00	2.45			1.10	0.15	0.81	
	Ch:1790		Cum	2.00	2.45			1.10	0.15	0.81	
	Ch:1850		Cum	2.00	2.45			1.10	0.15	0.81	
	Ch:1915		Cum	2.00	2.45			1.10	0.15	0.81	
	Ch:1975		Cum	2.00	2.45			1.10	0.15	0.81	
	For HDPE Chambers-Wall										
	Stretch : CHIKKBOMMSANDRA JUNCTION TO DAIRY CIRCLE JUNCTION -LHS & RHS										
	Ch:1197		Cum	4	2.45	0.15	0.15	0.15	0.80	1.18	
			Cum	4	1.10	0.15	0.15	0.15	0.80	0.53	
	Ch:1369		Cum	4	2.45	0.15	0.15	0.15	0.80	1.18	
			Cum	4	1.10	0.15	0.15	0.15	0.80	0.53	
	Ch:1440		Cum	4	2.45	0.15	0.15	0.15	0.80	1.18	
			Cum	4	1.10	0.15	0.15	0.15	0.80	0.53	
	Ch:1560		Cum	4	2.45	0.15	0.15	0.15	0.80	1.18	
			Cum	4	1.10	0.15	0.15	0.15	0.80	0.53	
	Ch:1645		Cum	4	2.45	0.15	0.15	0.15	0.80	1.18	
			Cum	4	1.10	0.15	0.15	0.15	0.80	0.53	
	Ch:1790		Cum	4	2.45	0.15	0.15	0.15	0.80	1.18	
			Cum	4	1.10	0.15	0.15	0.15	0.80	0.53	
	Ch:1850		Cum	4	2.45	0.15	0.15	0.15	0.80	1.18	
			Cum	4	1.10	0.15	0.15	0.15	0.80	0.53	
	Ch:1915		Cum	4	2.45	0.15	0.15	0.15	0.80	1.18	
			Cum	4	1.10	0.15	0.15	0.15	0.80	0.53	
	Ch:1975		Cum	4	2.45	0.15	0.15	0.15	0.80	1.18	
			Cum	4	1.10	0.15	0.15	0.15	0.80	0.53	22.62
	Pipe Deductions										
	9 No. 2 wall 2 Side		Cum	-72	0.03				0.15	-2.26	200 mm pipe - 2 Pipe
	9 No. 2 wall 2 Side		Cum	-72	0.01				0.15	-0.68	110 mm pipe - 2 Pipe
	Profile Correction										19.68
	Stretch : From Vishnu Park to Sandeep Unnikrishnan Road -RHS Side										
	10.00	20.00	CUM	1	10.00			2.00	0.15	3.00	
	20.00	30.00	CUM	1	10.00			2.00	0.15	3.00	
	30.00	40.00	CUM	1	10.00			2.50	0.15	3.75	
	40.00	50.00	CUM	1	10.00			2.00	0.15	3.00	
	50.00	60.00	CUM	1	10.00			3.00	0.15	4.50	
	60.00	70.00	CUM	1	10.00			2.20	0.15	3.30	
	70.00	80.00	CUM	1	10.00			2.60	0.15	3.90	
	80.00	90.00	CUM	1	10.00			2.60	0.15	3.90	
	90.00	100.00	CUM	1	10.00			2.60	0.15	3.90	
	100.00	110.00	CUM	1	10.00			2.60	0.15	3.90	

Checked
A.E.E. (Project)

Checked
A.E.E. (Project)

55.83

CONTRACTOR

PMC

BBMP

55.83 (73)

Sl No	Chainage From	Chainage To	Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
	110.00	120.00	CUM	1	10.00			3.00	0.15	4.50	
	120.00	130.00	CUM	1	10.00			3.20	0.15	4.80	
	130.00	140.00	CUM	1	10.00			3.20	0.15	4.80	
	140.00	150.00	CUM	1	10.00			3.20	0.15	4.80	
	150.00	160.00	CUM	1	10.00			3.20	0.15	4.80	
	160.00	170.00	CUM	1	10.00			3.10	0.15	4.65	
	170.00	180.00	CUM	1	10.00			3.10	0.15	4.65	
	180.00	190.00	CUM	1	10.00			2.50	0.15	3.75	
	190.00	200.00	CUM	1	10.00			2.30	0.15	3.45	
	200.00	210.00	CUM	1	10.00			1.80	0.15	2.70	
	210.00	220.00	CUM	1	10.00			1.50	0.15	2.25	
	220.00	230.00	CUM	1	10.00			2.10	0.15	3.15	
	230.00	240.00	CUM	1	10.00			2.10	0.15	3.15	
	240.00	250.00	CUM	1	10.00			2.00	0.15	3.00	
	250.00	260.00	CUM	1	10.00			2.00	0.15	3.00	
	Stretch : From Vishnu Park to Sandeep Unnikrishnan Road -LHS Side										
	10.00	20.00	CUM	1	10.00			3.50	0.15	5.25	
	20.00	30.00	CUM	1	10.00			3.50	0.15	5.25	
	30.00	40.00	CUM	1	10.00			3.00	0.15	4.50	
	40.00	50.00	CUM	1	10.00			3.50	0.15	5.25	
	50.00	60.00	CUM	1	10.00			2.50	0.15	3.75	
	60.00	70.00	CUM	1	10.00			3.30	0.15	4.95	
	70.00	80.00	CUM	1	10.00			2.90	0.15	4.35	
	80.00	90.00	CUM	1	10.00			2.90	0.15	4.35	
	90.00	100.00	CUM	1	10.00			2.90	0.15	4.35	
	100.00	110.00	CUM	1	10.00			2.90	0.15	4.35	
	110.00	120.00	CUM	1	10.00			2.50	0.15	3.75	
	120.00	130.00	CUM	1	10.00			2.30	0.15	3.45	
	130.00	140.00	CUM	1	10.00			2.30	0.15	3.45	
	140.00	150.00	CUM	1	10.00			2.30	0.15	3.45	
	150.00	160.00	CUM	1	10.00			2.30	0.15	3.45	
	160.00	170.00	CUM	1	10.00			2.40	0.15	3.60	
	170.00	180.00	CUM	1	10.00			2.40	0.15	3.60	
	180.00	190.00	CUM	1	10.00			3.00	0.15	4.50	
	190.00	200.00	CUM	1	10.00			3.20	0.15	4.80	
	200.00	210.00	CUM	1	10.00			3.70	0.15	5.55	
	210.00	220.00	CUM	1	10.00			4.00	0.15	6.00	
	220.00	230.00	CUM	1	10.00			3.40	0.15	5.10	
	230.00	240.00	CUM	1	10.00			3.40	0.15	5.10	
	240.00	250.00	CUM	1	10.00			3.50	0.15	5.25	
	250.00	260.00	CUM	1	10.00			3.50	0.15	5.25	
	Stretch : From Vishnu Park to Sandeep Unnikrishnan Road										
	0.00	10.00	CUM	1	10.00			7.50	0.15	11.25	
	260.00	270.00	CUM	1	10.00			7.50	0.15	11.25	
	270.00	280.00	CUM	1	10.00			7.50	0.15	11.25	
	RCC M20 - For Drain raft concrete										
	Stretch : From Vishnu Park to Sandeep Unnikrishnan Road - RHS										
		5.00	CUM	1.00	5.00				0.15		
	5.00	10.00	CUM	1.00	5.00		0.90	0.90	0.15	0.68	
	10.00	20.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	20.00	30.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	30.00	40.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	40.00	53.00	CUM	1.00	13.00				0.15		
	53.00	60.00	CUM	1.00	7.00		0.90	0.90	0.15	0.95	
	60.00	70.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	70.00	80.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	80.00	85.00	CUM	1.00	5.00		0.90	0.90	0.15	0.68	

CRFC Executive A.E.E. (Project)

CRFC Executive A.E.E. (Project)

DPS - Gate 3

268.73

NCC LIMITED BANGALORE CONTRACTOR

India Support Engineering Consultants Pvt. Ltd. PMC Bengaluru

BBMP

F 268.72 to 74

Sl No	Chainage From	Chainage To	Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
	85.00	93.00	CUM	1.00	8.00				0.15		DPS - Gate -2
	93.00	100.00	CUM	1.00	7.00		0.90	0.90	0.15	0.95	
	100.00	110.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	110.00	120.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	120.00	122.50	CUM	1.00	2.50				0.15		DPS - Gate -1
	122.50	129.00	CUM	1.00	6.50				0.15		
	129.00	130.00	CUM	1.00	1.00		0.90	0.90	0.15	0.14	
	130.00	135.00	CUM	1.00	5.00		0.90	0.90	0.15	0.68	
	135.00	142.00	CUM	1.00	7.00				0.15		PS Gate-1
	142.00	150.00	CUM	1.00	8.00		0.90	0.90	0.15	1.08	
	150.00	161.00	CUM	1.00	11.00		0.90	0.90	0.15	1.49	
	161.00	166.00	CUM	1.00	5.00				0.15		PS Gate-2
	166.00	170.00	CUM	1.00	4.00		0.90	0.90	0.15	0.54	
	170.00	180.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	180.00	190.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	190.00	200.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	200.00	210.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	210.00	214.00	CUM	1.00	4.00		0.90	0.90	0.15	0.54	
	214.00	219.00	CUM	1.00	5.00				0.15		Seshadripuram Gate 5
	219.00	230.00	CUM	1.00	11.00		0.90	0.90	0.15	1.49	
	230.00	250.00	CUM	1.00	20.00		0.90	0.90	0.15	2.70	
	250.00	260.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	260.00	270.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	270.00	273.00	CUM	1.00	3.00		0.90	0.90	0.15	0.41	
	273.00	279.50	CUM	1.00	6.50		0.90	0.90	0.15	0.88	Seshadripuram Gate 4
	Stretch : From Vishnu Park to Sandeep Unnikrishnan Road - LHS										
		6.20	CUM	1.00	6.20						
	6.20	10.00	CUM	1.00	3.80		0.90	0.90	0.15	0.51	
	10.00	20.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	20.00	30.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	30.00	40.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	40.00	50.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	50.00	60.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	60.00	70.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	70.00	80.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	80.00	90.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	90.00	100.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	100.00	104.00	CUM	1.00	4.00		0.90	0.90	0.15	0.54	
	104.00	109.00	CUM	1.00	5.00		0.90	0.90	0.15	0.68	
	109.00	110.00	CUM	1.00	1.00		0.90	0.90	0.15	0.14	
	110.00	120.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	120.00	125.00	CUM	1.00	5.00		0.90	0.90	0.15	0.68	
	125.00	131.50	CUM	1.00	6.50						6th B Main
	131.50	140.00	CUM	1.00	8.50		0.90	0.90	0.15	1.15	
	140.00	149.00	CUM	1.00	9.00		0.90	0.90	0.15	1.22	
	149.00	156.50	CUM	1.00	7.50						7th B Main
	156.50	160.00	CUM	1.00	3.50		0.90	0.90	0.15	0.47	
	160.00	170.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	170.00	180.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	180.00	190.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	190.00	200.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	200.00	210.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	210.00	220.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	220.00	235.00	CUM	1.00	15.00		0.90	0.90	0.15	2.03	
	235.00	250.00	CUM	1.00	15.00		0.90	0.90	0.15	2.03	
	250.00	260.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	
	260.00	270.00	CUM	1.00	10.00		0.90	0.90	0.15	1.35	

Cafc Kumaly A.E.E. (Project)

Cafc Kumaly A.E.E. (Project)

NCC LIMITED BANGALORE

CONTRACTOR

Support Engineering Consultants Pvt. Ltd. PMC Bengaluru

324.12

BBMP

Sl No	Chainage From	Chainage To	Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
	270.00	279.50	CUM	1.00	9.50		0.90	0.90	0.15	1.28	
	RCC M20 - For RCC wall Drain										
	Stretch : From Vishnu Park to Sandeep Unnikrishnan Road - RHS										
		5.00	CUM	2.00	5.00				0.90		
	5.00	10.00	CUM	2.00	5.00		0.15	0.15	0.90	1.35	
	10.00	20.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	20.00	30.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	30.00	40.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	40.00	53.00	CUM	2.00	13.00				0.90		DPS - Gate -3
	53.00	60.00	CUM	2.00	7.00		0.15	0.15	0.90	1.89	
	60.00	70.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	70.00	80.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	80.00	85.00	CUM	2.00	5.00		0.15	0.15	0.90	1.35	
	85.00	93.00	CUM	2.00	8.00				0.90		DPS - Gate -2
	93.00	100.00	CUM	2.00	7.00		0.15	0.15	0.90	1.89	
	100.00	110.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	110.00	120.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	120.00	122.50	CUM	2.00	2.50				0.90		
	122.50	129.00	CUM	2.00	6.50				0.90		DPS - Gate -1
	129.00	130.00	CUM	2.00	1.00		0.15	0.15	0.90	0.27	
	130.00	135.00	CUM	2.00	5.00		0.15	0.15	0.90	1.35	
	135.00	142.00	CUM	2.00	7.00				0.90		PS Gate-1
	142.00	150.00	CUM	2.00	8.00		0.15	0.15	0.90	2.16	
	150.00	161.00	CUM	2.00	11.00		0.15	0.15	0.90	2.97	
	161.00	166.00	CUM	2.00	5.00				0.90		PS Gate-2
	166.00	170.00	CUM	2.00	4.00		0.15	0.15	0.90	1.08	
	170.00	180.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	180.00	190.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	190.00	200.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	200.00	210.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	210.00	214.00	CUM	2.00	4.00		0.15	0.15	0.90	1.08	
	214.00	219.00	CUM	2.00	5.00				0.90		Seshadripuram Gate 5
	219.00	230.00	CUM	2.00	11.00		0.15	0.15	0.90	2.97	
	230.00	250.00	CUM	2.00	20.00		0.15	0.15	0.90	5.40	
	250.00	260.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	260.00	270.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	270.00	273.00	CUM	2.00	3.00		0.15	0.15	0.90	0.81	
	273.00	279.50	CUM	2.00	6.50		0.15	0.15	0.90	1.76	Seshadripuram Gate 4
	Stretch : From Vishnu Park to Sandeep Unnikrishnan Road - LHS										
		6.20	CUM	2.00	6.20						
	6.20	10.00	CUM	2.00	3.80		0.15	0.15	0.90	1.03	
	10.00	20.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	20.00	30.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	30.00	40.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	40.00	50.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	50.00	60.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	60.00	70.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	70.00	80.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	80.00	90.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	90.00	100.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	100.00	104.00	CUM	2.00	4.00		0.15	0.15	0.90	1.08	
	104.00	109.00	CUM	2.00	5.00		0.15	0.15	0.90	1.35	
	109.00	110.00	CUM	2.00	1.00		0.15	0.15	0.90	0.27	
	110.00	120.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	120.00	125.00	CUM	2.00	5.00		0.15	0.15	0.90	1.35	
	125.00	131.50	CUM	2.00	6.50						6th B Main
	131.50	140.00	CUM	2.00	8.50		0.15	0.15	0.90	2.30	

224.12 + 1.28 = 225.40

386.83

421.20

C&RC Executive Engineer (Project)

C&RC Executive Engineer (Project)

NCC LIMITED BANGALORE — CONTRACTOR

Support Engineering Consultants Pvt. Ltd. Bengaluru — PMC

BBMP

Sl No	Chainage From	Chainage To	Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
	140.00	149.00	CUM	2.00	9.00		0.15	0.15	0.90	2.43	
	149.00	156.50	CUM	2.00	7.50						7th B Main
	156.50	160.00	CUM	2.00	3.50		0.15	0.15	0.90	0.95	
	160.00	170.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	170.00	180.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	180.00	190.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	190.00	200.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	200.00	210.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	210.00	220.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	220.00	235.00	CUM	2.00	15.00		0.15	0.15	0.90	4.05	
	235.00	250.00	CUM	2.00	15.00		0.15	0.15	0.90	4.05	
	250.00	260.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	260.00	270.00	CUM	2.00	10.00		0.15	0.15	0.90	2.70	
	270.00	279.50	CUM	2.00	9.50		0.15	0.15	0.90	2.57	
	For HDPE Chambers - Raft										
	Stretch : From Vishnu Park to Sandeep Unnikrishnan Road- LHS										
	1		Cum	1.00	2.40			1.20	0.15	0.43	
	2		Cum	1.00	2.40			1.20	0.15	0.43	
	3		Cum	1.00	2.40			1.20	0.15	0.43	
	4		Cum	1.00	2.40			1.20	0.15	0.43	
	5		Cum	1.00	1.80			1.20	0.15	0.32	
	6		Cum	1.00	1.80			1.20	0.15	0.32	
	Stretch : From Vishnu Park to Sandeep Unnikrishnan Road- RHS										
	1		Cum	1.00	2.40			1.20	0.15	0.43	
	2		Cum	1.00	2.40			1.20	0.15	0.43	
	3		Cum	1.00	2.40			1.20	0.15	0.43	
	4		Cum	1.00	2.40			1.20	0.15	0.43	
	5		Cum	1.00	1.80			1.20	0.15	0.32	
	6		Cum	1.00	1.80			1.20	0.15	0.32	
	For HDPE Chambers - Wall										
	Stretch : From Vishnu Park to Sandeep Unnikrishnan Road- LHS										
	1		Cum	2.00	2.40			0.15	0.80	0.58	
			Cum	2.00	0.90			0.15	0.80	0.22	
	2		Cum	2.00	2.40			0.15	0.80	0.58	
			Cum	2.00	0.90			0.15	0.80	0.22	
	3		Cum	2.00	2.40			0.15	0.80	0.58	
			Cum	2.00	0.90			0.15	0.80	0.22	
	4		Cum	2.00	2.40			0.15	0.80	0.58	
			Cum	2.00	0.90			0.15	0.80	0.22	
	5		Cum	2.00	1.80			0.15	0.80	0.43	
			Cum	2.00	0.90			0.15	0.80	0.22	
	6		Cum	2.00	1.80			0.15	0.80	0.43	
			Cum	2.00	0.90			0.15	0.80	0.22	
	Stretch : From Vishnu Park to Sandeep Unnikrishnan Road- RHS										
	1		Cum	2.00	2.40			0.15	0.80	0.58	
			Cum	2.00	0.90			0.15	0.80	0.22	
	2		Cum	2.00	2.40			0.15	0.80	0.58	
			Cum	2.00	0.90			0.15	0.80	0.22	
	3		Cum	2.00	2.40			0.15	0.80	0.58	
			Cum	2.00	0.90			0.15	0.80	0.22	
	4		Cum	2.00	2.40			0.15	0.80	0.58	
			Cum	2.00	0.90			0.15	0.80	0.22	
	5		Cum	2.00	1.80			0.15	0.80	0.43	
			Cum	2.00	0.90			0.15	0.80	0.22	
	6		Cum	2.00	1.80			0.15	0.80	0.43	
			Cum	2.00	0.90			0.15	0.80	0.22	
	For Cross Road Culvert MCW										

CONTRACTOR

PMC

BBMP

Sl No	Chainage From	Chainage To	Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
	Stretch : From Vishnu Park to Sandeep Unnikrishnan Road - Raft										
	Near : Ch 270		Cum	1.00	11.00			1.50	0.20	3.30	
	Stretch : From Vishnu Park to Sandeep Unnikrishnan Road - Wall										
	Near : Ch 270		Cum	2.00	11.00			0.20	0.90	3.96	
	Stretch : From Vishnu Park to Sandeep Unnikrishnan Road - Slab										
	Near : Ch 270		Cum	36.00	1.50			0.30	0.25	4.05	36 Nos
Total Quantity			**Cum**							**481.81**	

CF 470.52 477

A.E.E. (Project)

CONTRACTOR

PMC

BBMP

(18)

NCC LIMITED

BRUHAT BENGALURU MAHANAGAR PALIKE

Whitetopping of road from Shesadripuram First Grade College to Aroma Bakery Junction via 3rd A cross Road,1st A Main Road,16th B Cross Road

MEASUREMENT SHEET

BOQ Item no. 18

KSRRB M2200-5.6. Providing and laying Design mix M30 with OPC @ 360kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @31ts confirming to 189103-1999 Reaffirmed-2008 including cost of materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. - i) upto 5 m height 12/1/23

Sl No	Chainage From	Chainage To	Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
	For HDPE Chambers -SLAB										
	Stretch : CHIKKBOMMSANDRA JUNCTION TO DAIRY CIRCLE JUNCTION -LHS & RHS										
	Ch:1197		Cum	2.00	2.45			1.10	0.25	1.35	
	Ch:1369		Cum	2.00	2.45			1.10	0.25	1.35	
	Ch:1440		Cum	2.00	2.45			1.10	0.25	1.35	
	Ch:1560		Cum	2.00	2.45			1.10	0.25	1.35	
	Ch:1645		Cum	2.00	2.45			1.10	0.25	1.35	
	Ch:1790		Cum	2.00	2.45			1.10	0.25	1.35	
	Ch:1850		Cum	2.00	2.45			1.10	0.25	1.35	
	Ch:1915		Cum	2.00	2.45			1.10	0.25	1.35	
	Ch:1975		Cum	2.00	2.45			1.10	0.25	1.35	
	For CULVERT RAFT at CROSS ROADS										
	Stretch : From DAIRY CIRCLE JUNCTION TO CHIKKBOMMSANDRA JUNCTION - RHS										
	1st B Main		CUM	1.00	6.60			1.20	0.20	1.58	
	4th B Main		CUM	1.00	6.60			1.20	0.20	1.58	
	6th B Main		CUM	1.00	6.00			1.20	0.20	1.44	
	12th B Main		CUM	1.00	6.60			1.20	0.20	1.58	
	13th B Main		CUM	1.00	5.40			1.20	0.20	1.30	
	For CULVERT WALL at CROSS ROADS										
	Stretch : From DAIRY CIRCLE JUNCTION TO CHIKKBOMMSANDRA JUNCTION - RHS										
	1st B Main		CUM	2.00	6.60			0.20	0.80	2.11	
	4th B Main		CUM	2.00	6.60			0.20	0.80	2.11	
	6th B Main		CUM	2.00	6.00			0.20	0.80	1.92	
	12th B Main		CUM	2.00	6.60			0.20	0.80	2.11	
	13th B Main		CUM	2.00	5.40			0.20	0.80	1.73	
	For CULVERT SLAB at CROSS ROADS										
	Stretch : From DAIRY CIRCLE JUNCTION TO CHIKKBOMMSANDRA JUNCTION - RHS										
	1st B Main		CUM	1.00	6.60			1.20	0.25	1.98	
	4th B Main		CUM	1.00	6.60			1.20	0.25	1.98	
	6th B Main		CUM	1.00	6.00			1.20	0.25	1.80	
	12th B Main		CUM	1.00	6.60			1.20	0.25	1.98	
	13th B Main		CUM	1.00	5.40			1.20	0.25	1.62	
	For HDPE Chambers - Slab										
	Stretch : From Vishnu Park to Sandeep Unnikrishnan Road- LHS										
	1		Cum	1.00	2.40			1.20	0.25	0.72	
	2		Cum	1.00	2.40			1.20	0.25	0.72	
	3		Cum	1.00	2.40			1.20	0.25	0.72	
	4		Cum	1.00	2.40			1.20	0.25	0.72	
	5		Cum	1.00	1.80			1.20	0.25	0.54	

Copy supply A.E.E. (Project)

Copy supply A.E.E. (Project)

12.92

CONTRACATOR

PMC

BBMP

Sl No	Chainage From	Chainage To	Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
	6		Cum	1.00	1.80			1.20	0.25	0.54	
	Stretch : From Vishnu Park to Sandeep Unnikrishnan Road- RHS										
	1		Cum	1.00	2.40			1.20	0.25	0.72	
	2		Cum	1.00	2.40			1.20	0.25	0.72	
	3		Cum	1.00	2.40			1.20	0.25	0.72	
	4		Cum	1.00	2.40			1.20	0.25	0.72	
	5		Cum	1.00	1.80			1.20	0.25	0.54	
	6		Cum	1.00	1.80			1.20	0.25	0.54	
	Stretch : From Vishnu Park to Sandeep Unnikrishnan Road - Slab										
	Near : Ch 270		Cum	36.00	1.50			0.30	0.25	4.05	36 Nos
	For Cross Ducts										
	Stretch : From Vishnu Park to Sandeep Unnikrishnan Road										
	Ch.0		Cum	1	11.00			1.50	0.20	3.30	
	Ch. 120		Cum	1	11.00			1.50	0.20	3.30	
	Ch. 270		Cum	1	11.00			1.50	0.20	3.30	
	Ramp										
	Stretch : From 280m chainage to Sandeep Unnikrishnan Road										
1	Layer -1		CUM	1	10.25			5.00	0.20	10.25	
2	Layer -2		CUM	1	10.25			5.00	0.20	10.25	
Total Quantity			**CUM**							**81.33**	

A.E.E. (Project)

CONTRACATOR

PMC

BBMP

NCC LIMITED

BRUHAT BENGALURU MAHANAGAR PALIKE

Whitetopping of road from Shesadripuram First Grade College to Aroma Bakery Junction via 3rd A cross Road, 1st A Main Road, 16th B Cross Road

BOQ Item no. 29 29/4/23, 6/5/23 BARBENDING SCHEDULE- RA BILL-03

KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 TMT Bars Fe 500

Dia of bar	Description	Chainage	Shape of the bar	No's	Length of bar	Spacing	Length in Opp.	No. of bars	Total length	Unit wt (Kgs/Rmt)	Total wt in Kgs	Remark
	Stretch :Kanthi Sweets to Aroma Bakery - HDPE Chambers - LHS & RHS											
12	Main Bottom Reinforcement-Raft	Ch : 1197 - 2 Nos	0.10 — 1.02 — 0.1	4	1.22	0.150	2.37	17	82.96	0.89	73.74	
10	Distribution of Bottom Reinforcement-Raft		2.37	4	2.37	0.150	1.02	8	75.84	0.62	46.81	
12	Main Reinforcement-Wall		0.87 (0.10 / 0.10) 0.87	4	0.97	0.150	2.37	17	65.96	0.89	58.63	
10	Distribution Reinforcement for -Wall		2.37	4	2.37	0.150	0.87	7	66.36	0.62	40.96	
12	Main Reinforcement-Wall		0.87 (0.10 / 0.10) 0.87	4	0.97	0.150	1.02	8	31.04	0.89	27.59	
10	Distribution Reinforcement for -Wall		1.02	4	1.02	0.150	0.87	7	28.56	0.62	17.68	
12	Main Bottom Reinforcement-Raft	Ch : 1369 - 2 Nos	0.10 — 1.02 — 0.1	4	1.22	0.150	2.37	17	82.96	0.89	73.74	
10	Distribution of Bottom Reinforcement-Raft		2.37	4	2.37	0.150	1.02	8	75.84	0.62	46.81	
12	Main Reinforcement-Wall		0.87 (0.10 / 0.10) 0.87	4	0.97	0.150	2.37	17	65.96	0.89	58.63	
10	Distribution Reinforcement for -Wall			4	2.37	0.150	0.87	7	66.36	0.62	40.96	

Cafe Kanthi

A.E.E. (Project)

NCC LIMITED CONTRACTOR BANGALORE

Support Engineering Consultants Pvt. Ltd. PMC Bengaluru

364.99

220.15

BBI

Dia of bar	Description	Chainage	Shape of the bar	No's	Length of bar	Spacing	Length in Opp.	No. of bars	Total length	Unit wt (Kgs/R mt)	Total wt in Kgs	Remark
			2.37									
12	Main Reinforcement-Wall		0.87 0.87 0.10 0.10	4	0.97	0.150	1.02	8	31.04	0.89	27.59	
10	Distribution Reinforcement for -Wall		1.02	4	1.02	0.150	0.87	7	28.56	0.62	17.63	
12	Main Bottom Reinforcement-Raft	Ch : 1440 - 2 Nos	0.10 0.1 1.02	4	1.22	0.150	2.37	17	82.96	0.89	73.74	
10	Distribution of Bottom Reinforcement-Raft		2.37	4	2.37	0.150	1.02	8	75.84	0.62	46.81	
12	Main Reinforcement-Wall		0.87 0.87 0.10 0.10	4	0.97	0.150	2.37	17	65.96	0.89	58.63	
10	Distribution Reinforcement for -Wall		2.37	4	2.37	0.150	0.87	7	66.36	0.62	40.98	
12	Main Reinforcement-Wall		0.87 0.87 0.10 0.10	4	0.97	0.150	1.02	8	31.04	0.89	27.59	
10	Distribution Reinforcement for -Wall		1.02	4	1.02	0.150	0.87	7	28.56	0.62	17.63	
12	Main Bottom Reinforcement-Raft	Ch : 1560 - 2 Nos	0.10 0.1 1.02	4	1.22	0.150	2.37	17	82.96	0.89	73.74	
10	Distribution of Bottom Reinforcement-Raft		2.37	4	2.37	0.150	1.02	8	75.84	0.62	46.81	
12	Main Reinforcement-Wall		0.87 0.87 0.10 0.10	4	0.97	0.150	2.37	17	65.96	0.89	58.63	

709.93

CRFC Kanakapura A.E.E. (Project)

NCC LIMITED CONTRACTOR BANGALORE

Support Engineering Consultants Pvt. Ltd. PMC Bengaluru

Dia of bar	Description	Chainage	Shape of the bar	No's	Length of bar	Spacing	Length in Opp.	No. of bars	Total length	Unit wt (Kgs/Rmt)	Total wt in Kgs	Remark
10	Distribution Reinforcement for - Wall		2.37	4	2.37	0.150	0.87	7	66.36	0.62	40.96	
12	Main Reinforcement- Wall		0.87 0.10 0.10 0.87	4	0.97	0.150	1.02	8	31.04	0.89	27.59	
10	Distribution Reinforcement for - Wall		1.02	4	1.02	0.150	0.87	7	28.56	0.62	17.63	
12	Main Bottom Reinforcement-Raft	Ch : 1645 - 2 Nos	0.10 1.02 0.1	4	1.22	0.150	2.37	17	82.96	0.89	73.74	
10	Distribution of Bottom Reinforcement-Raft		2.37	4	2.37	0.150	1.02	8	75.84	0.62	46.81	
12	Main Reinforcement- Wall		0.87 0.10 0.10 0.87	4	0.97	0.150	2.37	17	65.96	0.89	58.63	
10	Distribution Reinforcement for - Wall		2.37	4	2.37	0.150	0.87	7	66.36	0.62	40.96	
12	Main Reinforcement- Wall		0.87 0.10 0.10 0.87	4	0.97	0.150	1.02	8	31.04	0.89	27.59	
10	Distribution Reinforcement for - Wall		1.02	4	1.02	0.150	0.87	7	28.56	0.62	17.63	
12	Main Bottom Reinforcement-Raft	Ch : 1790 - 2 Nos	0.10 1.02 0.1	4	1.22	0.150	2.37	17	82.96	0.89	73.74	
10	Distribution of Bottom Reinforcement-Raft		2.37	4	2.37	0.150	1.02	8	75.84	0.62	46.81	
12	Main Reinforcement- Wall		0.87 0.87	4	0.97	0.150	2.37	17	65.96	0.89	58.63	

1240.68

Cafe Kunde

A.E.E. (Project)

NCC LIMITED CONTRACTOR BANGALORE

Support Engineering Consultants Pvt. Ltd. PMC Bengaluru

BBI

(83)

Dia of bar	Description	Chainage	Shape of the bar	No's	Length of bar	Spacing	Length in Opp.	No. of bars	Total length	Unit wt (Kgs/R mt)	Total wt in Kgs	Remark
10	Distribution Reinforcement for - Wall		0.10 0.10 / 2.37	4	2.37	0.150	0.87	7	66.36	0.62	40.96	
12	Main Reinforcement- Wall		0.87 0.87 / 0.10 0.10	4	0.97	0.150	1.02	8	31.04	0.89	27.59	
10	Distribution Reinforcement for - Wall		1.02	4	1.02	0.150	0.87	7	28.56	0.62	17.63	
12	Main Bottom Reinforcement-Raft	Ch : 1850 - 2 Nos	0.10 0.1 / 1.02	4	1.22	0.150	2.37	17	82.96	0.89	73.74	
10	Distribution of Bottom Reinforcement-Raft		2.37	4	2.37	0.150	1.02	8	75.84	0.62	46.81	
12	Main Reinforcement- Wall		0.87 0.87 / 0.10 0.10	4	0.97	0.150	2.37	17	65.96	0.89	58.63	
10	Distribution Reinforcement for - Wall		2.37	4	2.37	0.150	0.87	7	66.36	0.62	40.96	
12	Main Reinforcement- Wall		0.87 0.87 / 0.10 0.10	4	0.97	0.150	1.02	8	31.04	0.89	27.59	
10	Distribution Reinforcement for - Wall		1.02	4	1.02	0.150	0.87	7	28.56	0.62	17.63	
12	Main Bottom Reinforcement-Raft	Ch : 1915 - 2 Nos	0.10 0.1 / 1.02	4	1.22	0.150	2.37	17	82.96	0.89	73.74	
10	Distribution of Bottom Reinforcement-Raft		2.37	4	2.37	0.150	1.02	8	75.84	0.62	46.81	
12	Main Reinforcement- Wall			4	0.97	0.150	2.37	17	65.96	0.89	58.63	

1240.86

1771.92

Cafe Tender

A.E.E. (Project)

NCC LIMITED CONTRACTORS BANGALORE

Support Engineering Consultants Ltd. PMC Bangaluru

BBI

Dia of bar	Description	Chainage	Shape of the bar	No's	Length of bar	Spacing	Length in Opp	No. of bars	Total length	Unit wt (Kgs/R mt)	Total wt in Kgs	Remark
			0.87 0.87 0.10 0.10									
10	Distribution Reinforcement for - Wall		2.37	4	2.37	0.150	0.87	7	66.36	0.63	40.96	
12	Main Reinforcement- Wall			4	0.97	0.150	1.02	8	31.04	0.89	27.59	
			0.87 0.87 0.10 0.10									
10	Distribution Reinforcement for - Wall		1.02	4	1.02	0.150	0.87	7	28.56	0.62	17.63	
12	Main Bottom Reinforcement-Raft	Ch : 1975 - 2 Nos	0.10 0.1 1.02	4	1.22	0.150	2.37	17	82.96	0.89	73.74	
10	Distribution of Bottom Reinforcement-Raft		2.37	4	2.37	0.150	1.02	8	75.84	0.62	46.81	
12	Main Reinforcement- Wall			4	0.97	0.150	2.37	17	65.96	0.89	58.63	
			0.87 0.87 0.10 0.10									
10	Distribution Reinforcement for - Wall		2.37	4	2.37	0.150	0.87	7	66.36	0.63	40.96	
12	Main Reinforcement- Wall			4	0.97	0.150	1.02	8	31.04	0.89	27.59	
			0.87 0.87 0.10 0.10									
10	Distribution Reinforcement for - Wall		1.02	4	1.02	0.150	0.87	7	28.56	0.62	17.63	
	Stretch :Kanthi Sweets to Aroma Bakery - HDPE Chambers Slab - LHS & RHS											
12	Main Reinforcement	Ch : 1197 - 2 Nos	0.93	4	0.93	0.150	2.37	17	63.24	0.89	56.21	

Care Kundu

A.E.E. (Project)

2444.56

NCC LIMITED CONTRACTOR BANGALORE

Infra Support Engineering Consultants Pvt. Ltd. PMC Bengaluru

BBI

Dia of bar	Description	Chainage	Shape of the bar	No's	Length of bar	Spacing	Length in Opp.	No. of bars	Total length	Unit wt (Kgs/R mt)	Total wt in Kgs	Remark
10	Distribution bar		2.37	4	2.37	0.150	0.93	6	56.88	0.62	35.11	
12	Main Reinforcement	Ch : 1369 - 2 Nos	0.93	4	0.93	0.150	2.37	17	63.24	0.89	56.21	
12	Distribution bar		2.37	4	2.37	0.150	0.93	6	56.88	0.89	50.56	
12	Main Reinforcement	Ch : 1440 - 2 Nos	0.93	4	0.93	0.150	2.37	17	63.24	0.89	56.21	
12	Distribution bar		2.37	4	2.37	0.150	0.93	6	56.88	0.89	50.56	
12	Main Reinforcement	Ch : 1560 - 2 Nos	0.93	4	0.93	0.150	2.37	17	63.24	0.89	56.21	
10	Distribution bar		2.37	4	2.37	0.150	0.93	6	56.88	0.62	35.11	
12	Main Reinforcement	Ch : 1645 - 2 Nos	0.93	4	0.93	0.150	2.37	17	63.24	0.89	56.21	
10	Distribution bar		2.37	4	2.37	0.150	0.93	6	56.88	0.62	35.11	
12	Main Reinforcement	Ch : 1790 - 2 Nos	0.93	4	0.93	0.150	2.37	17	63.24	0.89	56.21	
10	Distribution bar		2.37	4	2.37	0.150	0.93	6	56.88	0.62	35.11	
12	Main Reinforcement	Ch : 1850- 2 Nos	0.93	4	0.93	0.150	2.37	17	63.24	0.89	56.21	
10	Distribution bar		2.37	4	2.37	0.150	0.93	6	56.88	0.62	35.11	
12	Main Reinforcement	Ch : 1915- 2 Nos		4	0.93	0.150	2.37	17	63.24	0.89	56.21	

CRC Mundra

A.E.E. (Project)

NCC LIMITED BANGALORE CONTRACTOR

Infra Support Engineering Consultants Pvt. Ltd. PMC Bengaluru

3206.05

BBI

Dia of bar	Description	Chainage	Shape of the bar	No's	Length of bar	Spacing	Length in (Nos	No. of bars	Total length	Unit wt (Kgs. per m)	Total wt of steps	Remarks
10	Distribution bar		0.93 / 2.37	8	2.37	0.150	0.93	8	58.08	0.62	35.81	
12	Main Reinforcement	Ch : 1975 - 2 Nos	0.93	8	0.93	0.150	2.37	17	63.24	0.89	56.21	
10	Distribution bar		2.37	8	2.37	0.150	0.93	8	58.08	0.62	35.11	
	Stretch : Stretch : From DAIRY CIRCLE JUNCTION TO CHIKKBOMMASANDRA JUNCTION - RHS - CULVERT CROSS ROADS											
20	Main Reinforcement	1st S Main	0.97 / 0.97 / 0.97	2	2.91	0.100	6.60	67	389.94	2.47	962.81	
16	Distribution bar		6.60	2	6.60	0.100	2.91	30	396.00	1.58	625.78	
20	Main Reinforcement	4th S Main	0.97 / 0.97 / 0.97	2	2.91	0.100	6.60	67	389.94	2.47	962.81	
16	Distribution bar		6.60	2	6.60	0.100	2.91	30	396.00	1.58	625.78	
20	Main Reinforcement	6th S Main	0.97 / 0.97 / 0.97	2	2.91	0.100	6.60	67	389.94	2.47	962.81	
16	Distribution bar		6.60	2	6.60	0.100	2.91	30	396.00	1.58	625.78	
20	Main Reinforcement	12th S Main	0.97 / 0.97 / 0.97	2	2.91	0.100	6.60	67	389.94	2.47	962.81	

8969.76

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A.E.E. (PROJECT)

NCC LIMITED CONTRACTOR BANGALORE

Support Engineering Consultants Pvt. Ltd. PMC Bengaluru

881

(87) ₹ 8969.76

Dia of bar	Description	Chainage	Shape of the bar	No's	Length of bar	Spacing	Length in Opp.	No. of bars	Total length	Unit wt (Kgs/Rmt)	Total wt in Kgs	Remark
16	Distribution bar		6.60	2	6.60	0.100	2.91	30	396.00	1.58	625.78	
20	Main Reinforcement	13th B Main	0.97 / 0.97 / 0.97	2	2.91	0.100	6.60	67	389.94	2.47	962.81	
16	Distribution bar		6.60	2	6.60	0.100	2.91	30	396.00	1.58	625.78	
	Stretch : Stretch : From DAIRY CIRCLE JUNCTION TO CHIKKBOMMSANDRA JUNCTION - RHS - Culvert-Slab											
16	Main Bottom Reinforcement-Raft	1st B Main	0.97	2	0.97	0.150	6.60	45	87.30	1.58	137.96	
12	Distribution of Bottom Reinforcement-Raft		6.60	2	6.60	0.150	0.97	7	92.40	0.89	82.13	
16	Main Bottom Reinforcement-Raft	4th B Main	0.97	2	0.97	0.150	6.60	45	87.30	1.58	137.96	
12	Distribution of Bottom Reinforcement-Raft		6.60	2	6.60	0.150	0.97	7	92.40	0.89	82.13	
16	Main Bottom Reinforcement-Raft	6th B Main	0.97	2	0.97	0.150	6.00	41	79.54	1.58	125.69	
12	Distribution of Bottom Reinforcement-Raft		6.00	2	6.00	0.150	0.97	7	84.00	0.89	74.67	
16	Main Bottom Reinforcement-Raft	12th B Main	0.97	2	0.97	0.150	6.60	45	87.30	1.58	137.96	
12	Distribution of Bottom Reinforcement-Raft		6.60	2	6.60	0.150	0.97	7	92.40	0.89	82.13	
16	Main Bottom Reinforcement-Raft	13th B Main	0.97	2	0.97	0.150	5.40	37	71.78	1.58	113.43	

C&R Kundy

A.E.E. (Project)

12158.18

NCC LIMITED BANGALORE CONTRACTOR

Support Engineering Consultants PMC Bengaluru

BBI

Dia of bar	Description	Chainage		Shape of the bar	No's	Length of bar	Spacing	Length in Opp	No. of bars	Total length	Unit wt (Kgs/Rmt)	Total wt in Kgs	Remark
12	Distribution of Bottom Reinforcement-Raft			5.40	2	5.40	0.150	0.97	7	75.60	0.89	67.20	
	Stretch :From Vishnu Park to Sandeep Unnikrishnan Road												
	RHS												
12	Main Reinforcement	0	280.00	1.05 / 0.90 / 1.05	1	3.00	0.150	280.00	1868	5604.00	0.89	4981.33	
10	Distribution bar			280.00	1	280.00	0.150	280.00	15	4200.00	0.62	2592.59	
10	Distribution bar			280.00	1	280.00	0.150	280.00	7	1960.00	0.62	1209.88	
	LHS												
12	Main Reinforcement	0	280.00	1.05 / 0.90 / 1.05	1	3.00	0.150	280.00	1868	5604.00	0.89	4981.33	
10	Distribution bar			280.00	1	280.00	0.150	280.00	15	4200.00	0.62	2592.59	
10	Distribution bar			280.00	1	280.00	0.150	280.00	7	1960.00	0.62	1209.88	
10													
	From Vishnu Park to Sandeep unnikrishnan Road - LHS HDPE Chambers												
12	Main Bottom Reinforcement-Raft	1		0.10 / 1.42 / 0.1	2	1.62	0.200	2.62	14	45.36	0.89	40.32	
10	Distribution of Bottom Reinforcement-Raft			2.62	2	2.62	0.200	1.42	8	41.92	0.62	25.88	
12	Main Reinforcement-Wall			0.87 / 0.10 / 0.10 / 0.87	2	0.97	0.200	2.62	14	27.16	0.89	24.14	
10	Distribution Reinforcement for -Wall			2.62	2	2.62	0.200	0.87	5	26.20	0.62	16.17	

CRFC Kundgol

A.E.E. (Project)

NCC LIMITED BANGALORE CONTRACTOR

Infra Support Engineering Consultants Pvt. Ltd. PMC Bengaluru

29899.50

BBI

89

(₹ 29899.50)

Dia of bar	Description	Chainage	Shape of the bar	No's	Length of bar	Spacing	Length in Opp.	No. of bars	Total length	Unit wt (Kgs/R mt)	Total wt in Kgs	Remark
12	Main Reinforcement-Wall		0.87 0.87 0.10 0.10	2	0.97	0.200	1.42	8	15.52	0.89	13.80	
10	Distribution Reinforcement for -Wall		1.42	2	1.42	0.200	0.87	5	14.20	0.62	8.77	
12	Main Bottom Reinforcement-Raft	2	0.10 0.1 1.42	2	1.62	0.200	2.62	14	45.36	0.89	40.32	
10	Distribution of Bottom Reinforcement-Raft		2.62	2	2.62	0.200	1.42	8	41.92	0.62	25.88	
12	Main Reinforcement-Wall		0.87 0.87 0.10 0.10	2	0.97	0.200	2.62	14	27.16	0.89	24.14	
10	Distribution Reinforcement for -Wall		2.62	2	2.62	0.200	0.87	5	26.20	0.62	16.17	
12	Main Reinforcement-Wall		0.87 0.87 0.10 0.10	2	0.97	0.200	1.42	8	15.52	0.89	13.80	
10	Distribution Reinforcement for -Wall		1.42	2	1.42	0.200	0.87	5	14.20	0.62	8.77	
12	Main Bottom Reinforcement-Raft	3	0.10 0.1 1.42	2	1.62	0.200	2.62	14	45.36	0.89	40.32	
10	Distribution of Bottom Reinforcement-Raft		2.62	2	2.62	0.200	1.42	8	41.92	0.62	25.88	
12	Main Reinforcement-Wall		0.87 0.87 0.10 0.10	2	0.97	0.200	2.62	14	27.16	0.89	24.14	
10	Distribution Reinforcement for -Wall		2.62	2	2.62	0.200	0.87	5	26.20	0.62	16.17	

Cafe Kamadya

A.E.E. (Project)

302 90.55

NCC LIMITED BANGALORE CONTRACTOR

Infra Support Engineering Consultants Pvt. Ltd. PMC Bengaluru

BBI

(90)

(F 30286.77)

Dia of bar	Description	Chainage	Shape of the bar	No's	Length of bar	Spacing	Length in Opp	No. of bars	Total length	Unit wt (Kgs/R mt)	Total wt in Kgs	Remark
12	Main Reinforcement-Wall		0.87 / 0.10 / 0.10 / 0.87	2	0.97	0.200	1.42	8	15.52	0.89	13.80	
10	Distribution Reinforcement for - Wall		1.42	2	1.42	0.200	0.87	5	14.20	0.62	8.77	
	From Vishnu Park to Sandeep unnikrishnan Road - RHS HDPE Chambers											
12	Main Bottom Reinforcement-Raft	1	0.10 / 1.42 / 0.1	2	1.62	0.200	2.62	14	45.36	0.89	40.32	
10	Distribution of Bottom Reinforcement-Raft		2.62	2	2.62	0.200	1.42	8	41.92	0.62	25.88	
12	Main Reinforcement-Wall		0.87 / 0.10 / 0.10 / 0.87	2	0.97	0.200	2.62	14	27.16	0.89	24.14	
10	Distribution Reinforcement for - Wall		2.62	2	2.62	0.200	0.87	5	26.20	0.62	16.17	
12	Main Reinforcement-Wall		0.87 / 0.10 / 0.10 / 0.87	2	0.97	0.200	1.42	8	15.52	0.89	13.80	
10	Distribution Reinforcement for - Wall		1.42	2	1.42	0.200	0.87	5	14.20	0.62	8.77	
12	Main Bottom Reinforcement-Raft	2	0.10 / 1.42 / 0.1	2	1.62	0.200	2.62	14	45.36	0.89	40.32	
10	Distribution of Bottom Reinforcement-Raft		2.62	2	2.62	0.200	1.42	8	41.92	0.62	25.88	
12	Main Reinforcement-Wall		0.87 / 0.87	2	0.97	0.200	2.62	14	27.16	0.89	24.14	

Cafe Kavidas

A.E.E. (Project)

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NCC LIMITED BANGALORE CONTRACTOR

Infra Support Engineering Consultants Pvt. Ltd. Bengaluru PMC

BBI

Dia of bar	Description	Chainage	Shape of the bar	No's	Length of bar	Spacing	Length in Opp.	No. of bars	Total length	Unit wt (Kgs/R mt)	Total Wt in Kgs	Remark
			0.10 0.10									
10	Distribution Reinforcement for - Wall		2.62	2	2.62	0.200	0.87	5	26.20	0.62	16.17	
12	Main Reinforcement-Wall		0.87 0.87 0.10 0.10	2	0.97	0.200	1.42	8	15.52	0.89	13.80	
10	Distribution Reinforcement for - Wall		1.42	2	1.42	0.200	0.87	5	14.20	0.62	8.77	
12	Main Bottom Reinforcement-Raft	3	0.10 0.1 1.42	2	1.62	0.200	2.62	14	45.36	0.89	40.32	
10	Distribution of Bottom Reinforcement-Raft		2.62	2	2.62	0.200	1.42	8	41.92	0.62	25.88	
12	Main Reinforcement-Wall		0.87 0.87 0.10 0.10	2	0.97	0.200	2.62	14	27.16	0.89	24.14	
10	Distribution Reinforcement for - Wall		2.62	2	2.62	0.200	0.87	5	26.20	0.62	16.17	
12	Main Reinforcement-Wall		0.87 0.87 0.10 0.10	2	0.97	0.200	1.42	8	15.52	0.89	13.80	
10	Distribution Reinforcement for - Wall		1.42	2	1.42	0.200	0.87	5	14.20	0.62	8.77	
	FOR CROSS DUCT - TOP MAT											
	Stretch : From Vishnu park to Sandeep Unnikrishnan Road											
10	Main Reinforcement	Ch : 0.00	1.90	1	1.90	0.100	8.00	81	153.90	0.62	95.00	

30537.42

30662.42

NCC LIMITED BANGALORE CONTRACTOR

Infra Support Engineering Consultants Pvt. Ltd. Bengaluru PMC

A.E.E. (Project)

BBI

Dia of bar	Description	Chainage	Shape of the bar	No's	Length of bar	Spacing	Length in Opp.	No. of bars	Total length	Unit wt (Kgs/R mt)	Total wt in Kgs	Remark
8	Distribution bar		8.0	1	8.00	0.150	1.90	13	104.00	0.40	41.09	
10	Main Reinforcement	Ch : 120	1.90	1	1.90	0.100	8.00	81	153.90	0.62	95.00	
8	Distribution bar		8.0	1	30.00	0.150	1.90	13	390.00	0.40	154.07	
10	Main Reinforcement	270.00	2.00	1	2.00	0.100	8.00	81	162.00	0.62	100.00	
8	Distribution bar		8.0	1	30.00	0.150	1.90	13	390.00	0.40	154.07	
	Stretch : From Vishnu Park to Sandeep unnikrishnan Road - LHS & RHS Cover slab for HDPE Chambers											
12	Main Reinforcement	1	1.12	2	1.12	0.200	2.32	13	29.12	0.89	25.88	
10	Distribution bar		2.32	2	2.32	0.200	1.12	6	27.84	0.62	17.19	
12	Main Reinforcement	2	1.12	2	1.12	0.200	2.32	13	29.12	0.89	25.88	
10	Distribution bar		2.32	2	2.32	0.200	1.12	6	27.84	0.62	17.19	
12	Main Reinforcement	3	1.12	2	1.12	0.200	2.32	13	29.12	0.89	25.88	

C&RC Executive

A.E.E. (Project)

NCC LIMITED CONTRACTORS BANGALORE

Infra Support Engineering Consultants Pvt. Ltd. PMC Bengaluru

(93) 31818.18

Dia of bar	Description	Chainage	Shape of the bar	No's	Length of bar	Spacing	Length in Opp.	No. of bars	Total length	Unit wt (Kgs/R mt)	Total wt in Kgs	Remark
											(F 31257.75)	
10	Distribution bar		2.32	2	2.32	0.200	1.12	6	27.84	0.62	17.19	
12	Main Reinforcement	4	1.12	2	1.12	0.200	2.32	13	29.12	0.89	25.88	
10	Distribution bar		2.32	2	2.32	0.200	1.12	6	27.84	0.62	17.19	
12	Main Reinforcement	5	1.12	2	1.12	0.200	2.32	13	29.12	0.89	25.88	
10	Distribution bar		2.32	2	2.32	0.200	1.12	6	27.84	0.62	17.19	
12	Main Reinforcement	6	1.12	2	1.12	0.200	2.32	13	29.12	0.89	25.88	
10	Distribution bar		2.32	2	2.32	0.200	1.12	6	27.84	0.62	17.19	
	Stretch : From Vishnu Park to Sandeep UnniKrishnan Road - Cross Road Drain Culvert											
20	Main Reinforcement	Ch: 270	0.97 / 0.97 / 0.97	2	2.91	0.100	11.00	111	646.02	2.47	1595.11	
16	Distribution bar		11.00	2	11.00	0.100	2.91	30	660.00	1.58	1042.96	
	Stretch : From Vishnu Park to Sandeep UnniKrishnan Road - Cross Road Drain Culvert Slab											
20	Main Bottom Reinforcement-Raft	Ch: 270	0.97	72	0.97	0.100	0.30	4	279.36	2.47	689.78	36 Slabs
16	Distribution of Bottom Reinforcement-Raft		0.30	72	0.30	0.100	0.97	11	237.60	1.58	375.47	

35168.39

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A.E.E. (Project)

NCC LIMITED BANGALORE CONTRACTOR

Infra Support Engineering Consultants Pvt. Ltd. PMC Bengaluru

BBI

(94) (S.35/68-39)

Dia of bar	Description	Chainage	Shape of the bar	No's	Length of bar	Spacing	Length in Opp.	No. of bars	Total length	Unit wt (Kgs/Rmt)	Total wt in Kgs	Remark
	Stretch : From Vishnu Park to Sandeep Unnikrishnan Road											
12	Main Reinforcement	24 poles	1.42	24	1.42	0.080	0.42	6	204.48	0.89	181.76	
12	Distribution bar		0.42 / 0.42 0.42 / 0.42	24	1.68	0.175	1.42	8	322.56	0.89	286.79	
										Total wt in Kgs	35636.875	
										Total wt in MT	35.637	

A.E.E. (Project)

NCC LIMITED BANGALORE CONTRACTOR

Infra Support Engineering Consultants Pvt. Ltd. PMC Bengaluru

NCC LIMITED

BRUHAT BENGALURU MAHANAGAR PALIKE

Whitetopping of road from Shesadripuram First Grade College to Aroma Bakery Junction via 3rd A cross Road,1st A Main Road,16th B

MEASUREMENT SHEET

BOQ Item no. 11

Providing and inserting of 12mm dia TMT bar at 500mm c/c & applying Lokfix of Fosroc chemical of approved brand for tie rods of 12mm dia & 500mm length for the construction of longitudinal joint in Pavement Quality Concrete (PQC) at every 500mm centre to centre along the length of the road, the 50% of the tie rods should be embeded on both sides of joint. The tie rod should be inserted in the PQC concrete with applying lokfix including cost of conveyance of all materials , labour, lead and lift charges and all other incidental charges as per the drawing, specifications and direction of Engineer In-charge etc., complete. 20/4/23, 29/5/23

Sl No	Chainage		Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
	From	To									
Stretch : From Vishnu Park to Sandeep Unnikrishnan Road											
	0.00	280.00	RMT	1.00	280.00					280.00	
					RMT					280.00	
					NOS					560.00	

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

NCC LIMITED BANGALORE CONTRACTOR

India Support Engineering Consultants Pvt. Ltd. Bengaluru PMC

BBMP

NCC LIMITED

BRUHAT BENGALURU MAHANAGAR PALIKE

Whitetopping of road from Shesadripuram First Grade College to Aroma Bakery Junction via 3rd A cross Road,1st A Main Road,16th B Cross Road

MEASUREMENT SHEET

BOQ Item no. 12 20/4/23, 24/5/23

Providing and fixing DOWEL bars of dia 25mm,500mm length for construction joint in pavement Quality Concrete (PQC) at every construction joints along the width of the road ,the 50% of the dowel bar should be embeded on boths dies of joints,the exposed bar should be covered with PVC sleeves.The bar should be paints with epoxy paint and primer including cost of conveyance of all materials,labour lead and lift charges and all other incidental charges as per he drawing ,specifications and direction of Engineer In charge etc., complete.

Sl No	Chainage		Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
	From	To									
Stretch : From Vishnu Park to Sandeep Unnikrishnan Road											
1			Nos	13						13.00	
2			Nos	13						13.00	
3			Nos	13						13.00	
4			Nos	13						13.00	
5			Nos	13						13.00	
Total			**Nos**							**65.00**	

CaRC

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

NCC LIMITED BANGALORE

CONTRACTOR

Infra Support Engineering Consultants Pvt. Ltd. PMC Bengaluru

BBMP

NCC LIMITED

BRUHAT BENGALURU MAHANAGAR PALIKE

Whitetopping of road from Shesadripuram First Grade College to Aroma Bakery Junction via 3rd A cross Road,1st A Main Road,16th B Cross Road

MEASUREMENT SHEET

BOQ Item no. 14

KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5

16/8/22

Sl No	Chainage		Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
	From	To									
	Cross roads-Temporary Ramps										
	Stretch : From DAIRY CIRCLE JUNCTION TO NEWTOWN BUS STOP-RHS										
	1500.00	1530.00	Sqm	1.00	30.00			2.35		70.50	Bus bay portion
	1530.00	1560.00	Sqm	1.00	30.00			2.55		76.50	Bus bay portion
	1560.00	1585.00	Sqm	1.00	25.00			2.30		57.50	Bus bay portion
	1593.00	1600.00	Sqm	1.00	7.00			2.30		16.10	
	1970.00	1980.00	Sqm	1.00	10.00			1.55		15.50	
	1950.00	1960.00	Sqm	1.00	6.70			1.80		12.06	13th cross
	1925.00	1935.10	Sqm	1.00	10.10			3.70		37.37	12B Mahalakshmi sweets
	1737.00	1747.00	Sqm	1.00	7.85			2.00		15.70	9th main
	1585.00	1593.00	Sqm	1.00	6.75			3.50		23.63	Poonam hardware
	1492.00	1500.00	Sqm	1.00	7.80			3.00		23.40	7th B Cross
	1478.00	1488.00	Sqm	1.00	8.60			2.10		18.06	6th B main B sector(2 layers)
	1314.00	1320.00	Sqm	1.00	9.40			1.60		15.04	4th B Mahaveer mobiles
	1148.00	1158.00	Sqm	1.00	12.50			1.70		21.25	1st B road
Total Quantity			**Sqm**							**402.61**	

CRE Kundu

A.E.E. (Project)

NCC LIMITED BANGALORE

Infra Support Engineering Consultants Pvt. Ltd. Bengaluru

NCC LIMITED

BRUHAT BENGALURU MAHANAGAR PALIKE

Whitetopping of road from Shesadripuram First Grade College to Aroma Bakery Junction via 3rd A cross Road,1st A Main Road,16th B Cross Road

MEASUREMENT SHEET

BOQ Item no. 15

KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 505 of MORTH V revision - do - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-11 (50 mm to 75 mm) with 4.5 % VG-30 Bitumen

16/8/22

Sl No	Chainage From	Chainage To	Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
	Cross roads-Temporary Ramps										
	Stretch : From DAIRY CIRCLE JUNCTION TO NEWTOWN BUS STOP-RHS										
	1500.00	1530.00	CUM	1.00	30.00			2.35	0.06	4.23	Bus bay portion
	1530.00	1560.00	CUM	1.00	30.00			2.55	0.06	4.59	Bus bay portion
	1560.00	1585.00	CUM	1.00	25.00			2.30	0.06	3.45	Bus bay portion
	1593.00	1600.00	CUM	1.00	7.00			2.30	0.06	0.97	
	1970.00	1980.00	CUM	1.00	10.00			1.55	0.06	0.93	
	1950.00	1960.00	CUM	1.00	6.70			1.80	0.06	0.72	13th cross
	1925.00	1935.10	CUM	1.00	10.10			3.70	0.06	2.24	12B Mahalakshmi sweets
	1737.00	1747.00	CUM	1.00	7.85			2.00	0.06	0.94	9th main
	1585.00	1593.00	CUM	1.00	6.75			3.50	0.06	1.42	Poonam hardware
	1492.00	1500.00	CUM	1.00	7.80			3.00	0.06	1.40	7th B Cross
	1478.00	1488.00	CUM	2.00	8.60			2.10	0.06	2.17	6th B main B sector(2 layers)
	1314.00	1320.00	CUM	1.00	9.40			1.60	0.06	0.90	4th B Mahaveer mobiles
	1148.00	1158.00	CUM	1.00	12.50			1.70	0.06	1.28	1st B road
Total Quantity			**CUM**							**25.24**	

C&PC Amulya A.E.E. (Project)

NCC LIMITED BANGALORE

India Support Engineering Consultants Pvt. Ltd. Bengaluru

NCC LIMITED
BRUHAT BENGALURU MAHANAGAR PALIKE
WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION
MEASUREMENT SHEET

BOQ Item no. 31

Supply,fabrication and fixing of cast iron items such as recess manhole covers,bollards,manhole covers with gratings,etc as per approved drawing and confirming to BS-EN-124-B-124 standards(PW,P & IWTD SR 2016-17,Pg No VIII Sl No.223 Code No.0723) DR

20/9/23

Sl No	Chainage From	Chainage To	Unit	Nos	Length				Unit Weight	Quantity	Remarks
	Stretch : From CHIKKBOMMSANDRA JUNCTION TO DAIRY CIRCLE JUNCTION - LHS										
	For Shoulder Drain Openings										
	CH: 1510-1568		Nos	5						5.00	
	CH: 1590-1628		Nos	2						2.00	
	CH: 1635-1730		Nos	7						7.00	
	Stretch : From CHIKKBOMMSANDRA JUNCTION TO DAIRY CIRCLE JUNCTION - RHS										
	For Shoulder Drain Openings										
	CH: 1109-1992		Nos	25						25.00	
	Total Nos		Nos							**39.00**	
	Weight per No.										
	MS ANGLE 25X25X5 MM		Kgs	2	0.45				1.80	1.62	Horizontal
	MS ANGLE 25X25X5 MM		Kgs	2	0.30				1.80	1.08	Vertical
	MS SQUARE BAR-10MM		Kgs	1	0.45				0.79	0.35	Horizontal
	MS SQUARE BAR-10MM		Kgs	5	0.30				0.79	1.18	Vertical
	Weight for 1 no.		Kgs							4.23	
	TOTAL SHOULDER GRATINGS (39 X 4.23) =									**165.00**	164.97
	For Culverts - Frame & Slab										
	1109		Nos	1						1.00	
	1328		Nos	1						1.00	
	1490		Nos	1						1.00	
	1590		Nos	1						1.00	
	1762		Nos	1						1.00	
	Total Nos		Nos							**5.00**	
	Bottom Frame										
	100X 100X8 MM		Kgs	2	8.50				12.10	205.70	Horizontal
	100X 100X8 MM		Kgs	2	1.35				12.10	32.67	Vertical
	Slabs										
	40X40X6 MM		Kgs	140	1.33				3.50	651.70	35 Slabs 4 nos.per Slab
	40X40X6 MM		Kgs	140	0.23				3.50	112.70	35 Slabs 4 nos.per Slab
	40X40X6 MM		Kgs	140	0.15				3.50	73.50	35 Slabs 4 nos.per Slab
	Total Quantity -1 Culvert		Kgs							**1076.27**	
	Total Quantity -5 Culvert		Kgs			(1076.27 X 5)				**5381.35**	
	Stretch : From CHIKKBOMMSANDRA JUNCTION TO DAIRY CIRCLE JUNCTION										
	~~**Bollard Pole**~~										
	CH: 1590-1630		Nos	~~41~~						~~41.00~~	
	Weight per No.										
	150 mm (NB) Heavy		Kgs	~~1~~	~~4.20~~				~~25.20~~	~~30.24~~	
	Weight for 1 no.		Kgs							~~30.24~~	
	TOTAL SHOULDER GRATINGS					(41 X 30.24)				~~1239.84~~	
	Stretch : From Vishnu Park to Sandeep UnniKrishnan Road - Cross Road Drain Culvert										
	For Culverts - Frame & Slab										
	Ch: 270		Nos	1						1.00	
	Total Nos		Nos							**1.00**	
	Bottom Frame										
	100X 100X8 MM		Kgs	2	11.00				12.10	266.20	Horizontal
	100X 100X8 MM		Kgs	2	1.50				12.10	36.30	Vertical
	Slabs										
	40X40X6 MM		Kgs	144	1.50				3.50	756.00	36 Slabs 4 nos.per Slab
	40X40X6 MM		Kgs	144	0.23				3.50	115.92	36 Slabs 4 nos.per Slab
	40X40X6 MM		Kgs	144	0.15				3.50	75.60	36 Slabs 4 nos.per Slab
	Total Quantity -1 Culvert		Kgs							**1250.02**	
	Total Quantity		Kgs							**1250.02**	
	Total Quantity(Wt.)		Kgs							**8036.21**	6796.34

CRFC Yelahanka (Project) M.E.E.

M.E.E. (Project)

NCC LIMITED BANGALORE

Infra Support Engineering Consultants Pvt. Ltd. Bengaluru

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NCC LIMITED

BRUHAT BENGALURU MAHANAGAR PALIKE

Whitetopping of road from Shesadripuram First Grade College to Aroma Bakery Junction via 3rd A cross Road,1st A Main Road,16th B Cross Road

MEASUREMENT SHEET

BOQ Item no. 32

Supplying PVC ringtite pipe confirming to IS 4985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour, with all lead & lift including encasing the pipe alround to a depth of not less than 15cms with soft gravel or selected earth avilable from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing). 25 - 10 Kg/Cm2 (Class5)

20/9/23

Sl No	Chainage		Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
	From	To									
	For House Connection - Damaged										
	Chandra Café to Aroma Bakery - LHS & RHS										
	700.00	1992.00	Rmt	31	1.50					46.50	
Total Quantity			**Rmt**							**46.50**	

Café Chandra

A.E.E. (Project)

NCC LIMITED BANGALORE

Infra Support Engineering Consultants Pvt. Ltd.

NCC LIMITED

BRUHAT BENGALURU MAHANAGAR PALIKE

Whitetopping of road from Shesadripuram First Grade College to Aroma Bakery Junction via 3rd A cross Road,1st A Main Road,16th B Cross Road

MEASUREMENT SHEET

BOQ Item no. 33

Supplying PVC ringtite pipe confirming to IS 4985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour, with all lead & lift including encasing the pipe alround to a depth of not less than 15cms with soft gravel or selected earth avilable from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing). 32 - 10 Kg/Cm2 (Class5)

20/9/23

Sl No	Chainage		Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
	From	To									
	For House Connection - Damaged										
	Chandra Café to Aroma Bakery - LHS & RHS										
	700.00	1992.00	Rmt	33	1.50					49.50	
Total Quantity			**Rmt**							**49.50**	

NCC LIMITED BANGALORE

A.E. (Project)

Infra Support Engineering Consultants Pvt. Ltd. Bengaluru

NCC LIMITED

BRUHAT BENGALURU MAHANAGAR PALIKE

Whitetopping of road from Shesadripuram First Grade College to Aroma Bakery Junction via 3rd A cross Road,1st A Main Road,16th B Cross Road

MEASUREMENT SHEET

BOQ Item no. 34

Supplying PVC ringtite pipe confirming to IS 4985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour, with all lead & lift including encasing the pipe alround to a depth of not less than 15cms with soft gravel or selected earth avilable from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing). 50 - 6 Kg/Cm2 (Class3)

Measurement Recorded on 20/9/23

Sl No	Chainage		Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
	From	To									
	For House Connection - Damaged										
	Chandra Café to Aroma Bakery - LHS & RHS									70.50	
	700.00	1992.00	Rmt	47	1.50					**70.50**	
Total Quantity			**Rmt**								

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Infra Support Engineering Consultants Pvt. Ltd. Bengaluru (Project)

NCC LIMITED

BRUHAT BENGALURU MAHANAGAR PALIKE

Whitetopping of road from Shesadripuram First Grade College to Aroma Bakery Junction via 3rd A cross Road, 1st A Main Road, 16th B Cross Road

MEASUREMENT SHEET

BOQ Item no. 40 Measurement Recorded on 27/10/23

Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications f) 12.5mm chips (Data Rate)

	Tree Pits Filling									
	Stretch : From Chandra Café to Yes Bank - LHS									
	Tree Pits	Cum	1	1.54	1.05	1.05	1.05	0.20	0.32	
		Cum	1	1.43	1.10	1.10	1.10	0.20	0.31	
		Cum	1	1.62	1.55	1.55	1.55	0.20	0.50	
		Cum	1	1.20	1.10	1.10	1.10	0.20	0.26	
		Cum	1	1.72	1.60	1.60	1.60	0.20	0.55	
		Cum	1	2.40	2.02	2.02	2.02	0.20	0.97	
		Cum	1	1.20	1.32	1.32	1.32	0.20	0.32	
		Cum	1	1.30	1.20	1.20	1.20	0.20	0.31	
		Cum	1	2.80	2.10	2.10	2.10	0.20	1.18	
		Cum	1	1.51	1.92	1.92	1.92	0.20	0.58	
	Stretch : From YES Bank to Vishnu Park - LHS									
	Tree Pits	Cum	12.00	3.00	2.50	2.50	2.50	0.20	18.00	
	Stretch : From Vishnu Park to Kanthi Sweets - LHS									
	Tree Pits	Cum	1	2.45			3.20	0.20	1.57	
		Cum	1	1.20			1.10	0.20	0.26	
		Cum	1	1.65			2.00	0.20	0.66	
		Cum	4	1.40			1.40	0.20	1.57	
		Cum	1	3.60			1.60	0.20	1.15	
		Cum	1	1.40			1.60	0.20	0.45	
		Cum	1	1.90			1.82	0.20	0.69	
		Cum	2	1.45			1.60	0.20	0.93	
		Cum	1	2.50			2.30	0.20	1.15	
		Cum	2	1.45			1.55	0.20	0.90	
		Cum	5	2.45			2.35	0.20	5.76	
	Stretch : Stretch : From Chandra Café to Yes Bank- RHS									
	Tree Pits	Cum	1	1.60	1.31	1.31	1.31	0.20	0.42	
		Cum	1	1.75	2.10	2.10	2.10	0.20	0.74	
		Cum	1	1.75	2.10	2.10	2.10	0.20	0.74	
		Cum	1	2.40	4.30	4.30	4.30	0.20	2.06	
		Cum	1	1.96	1.65	1.65	1.65	0.20	0.65	
		Cum	1	1.46	1.23	1.23	1.23	0.20	0.36	
		Cum	1	1.46	1.23	1.23	1.23	0.20	0.36	
		Cum	1	2.18	5.50	5.50	5.50	0.20	2.40	
		Cum	1	1.77	1.34	1.34	1.34	0.20	0.47	
		Cum	1	2.54	2.00	2.00	2.00	0.20	1.02	
		Cum	1	1.50	1.33	1.33	1.33	0.20	0.40	
		Cum	1	2.02	1.92	1.92	1.92	0.20	0.78	
	Stretch : From YES Bank to Vishnu Park - RHS									
	Tree Pits	Cum	16	3.00	3.00	3.00	3.00	0.20	28.80	
	Stretch : From Vishnu Park to Kanthi Sweets - RHS									
	Tree Pits	Cum	1	1.90			1.75	0.20	0.67	
		Cum	1	1.90			1.75	0.20	0.67	
		Cum	3	1.80			1.45	0.20	1.57	
		Cum	1	2.60			1.45	0.20	0.75	
	Stretch : From Canara Bank to Kanthi Sweets - LHS									
	Tree Pit	Cum	1	4.30			2.80	0.20	2.41	
		Cum	1	3.60			2.00	0.20	1.44	
		Cum	1	4.80			2.00	0.20	1.92	
		Cum	1	3.00			2.50	0.20	1.50	
		Cum	1	3.00			2.50	0.20	1.50	
		Cum	1	1.50			2.00	0.20	0.60	
		Cum	1	1.00			1.20	0.20	0.24	
		Cum	1	3.00			2.50	0.20	1.50	
		Cum	1	3.00			2.50	0.20	1.50	
		Cum	5	1.50			1.50	0.20	2.25	

CRPC Kannada

A.E.E. (Project)

CRPC Kannada

A.E.E. (Project)

NCC LIMITED BANGALORE

Infra Support Engineering Consultants Pvt. Ltd. Bengaluru

96.09

		Cum	3	2.45			2.55	0.20	3.75	
		Cum	1	2.00			2.00	0.20	0.80	
		Cum	7	2.00			1.50	0.20	4.20	
		Cum	2	3.00			2.50	0.20	3.00	
		Cum	2	3.00			2.50	0.20	3.00	
		Cum	3	3.00			2.50	0.20	4.50	
	Stretch : From Canara Bank to Kanthi Sweets - RHS									
	Tree Pit	Cum	1	2.70			2.30	0.20	1.24	
		Cum	1	2.20			2.50	0.20	1.10	
		Cum	1	2.00			1.50	0.20	0.60	
		Cum	1	3.00			2.90	0.20	1.74	
		Cum	1	1.80			1.60	0.20	0.58	
		Cum	2	1.50			1.50	0.20	0.90	
		Cum	1	1.80			2.30	0.20	0.83	
		Cum	2	2.50			2.80	0.20	2.80	
		Cum	1	1.50			1.50	0.20	0.45	
		Cum	1	2.50			2.80	0.20	1.40	
		Cum	2	3.50			2.50	0.20	3.50	
	Stretch : From CHIKKBOMMSANDRA JUNCTION TO DAIRY CIRCLE JUNCTION - LHS									
	Tree Pits	Cum	12	1.30	1.50	1.50	1.50	0.20	4.68	
	Stretch : From CHIKKBOMMSANDRA JUNCTION TO DAIRY CIRCLE JUNCTION - RHS									
	Tree Pits	Cum	44	1.30	1.50	1.50	1.50	0.20	17.16	
	Stretch : From Vishnu Park to Sandeep Unnikrishnan Road - LHS									
	Tree Pits	Cum	1	1.70			2.75	0.20	0.94	
		Cum	1	1.65			1.40	0.20	0.46	
		Cum	1	1.30			1.47	0.20	0.38	
		Cum	1	1.89			2.06	0.20	0.78	
		Cum	1	1.28			1.39	0.20	0.36	
		Cum	1	1.80			1.70	0.20	0.61	
		Cum	1	1.05			0.90	0.20	0.19	
		Cum	1	1.34			1.56	0.20	0.42	
		Cum	1	1.34			1.56	0.20	0.42	
		Cum	1	1.34			1.56	0.20	0.42	
		Cum	1	1.34			1.56	0.20	0.42	
		Cum	1	1.34			2.15	0.20	1.08	
		Cum	1	2.50			1.72	0.20	0.55	
		Cum	1	1.60			2.70	0.20	1.29	
		Cum	1	2.38			1.48	0.20	0.36	
		Cum	1	1.23						
	Stretch : From Vishnu Park to Sandeep Unnikrishnan Road - RHS									
	Tree Pits	Cum	1	1.56			1.80	0.20	0.56	
		Cum	1	1.86			2.20	0.20	0.82	
		Cum	1	1.30			1.00	0.20	0.26	
		Cum	1	1.30			1.00	0.20	0.26	
		Cum	1	1.65			1.65	0.20	0.54	
		Cum	1	1.40			1.34	0.20	0.38	
		Cum	1	2.65			3.63	0.20	1.92	
		Cum	1	0.80			0.80	0.20	0.13	
		Cum	1	2.90			3.62	0.20	2.10	
		Cum	1	2.02			1.50	0.20	0.61	
		Cum	1	2.53			1.90	0.20	0.96	
		Cum	1	1.80			1.92	0.20	0.69	
		Cum	1	1.42			1.45	0.20	0.41	
		Cum	1	2.40			1.68	0.20	0.81	
		Cum	1	1.75			1.55	0.20	0.54	
		Cum	1	2.00			1.49	0.20	0.60	
		Cum	1	0.88			0.90	0.20	0.16	
		Cum	1	0.90			0.90	0.20	0.16	
		Cum	1	0.90			0.90	0.20	0.16	
		Cum	1	1.20			1.20	0.20	0.29	
		Cum	1	1.20			1.20	0.20	0.29	
		Cum	1	1.20			4.55	0.20	2.44	
		Cum	1	2.68			2.80	0.20	1.23	
		Cum	1	2.20						
									177.29	
	Total Quantity	**Cum**								

F 96.00/104

A.E.E. (Project)

NCC LIMITED BANGALORE

Infra Support Engineering Consultants Pvt. Ltd. Bengaluru

NCC LIMITED

BRUHAT BENGALURU MAHANAGAR PALIKE

Whitetopping of road from Shesadripuram First Grade College to Aroma Bakery Junction via 3rd A cross Road,1st A Main Road,16th B Cross Road

MEASUREMENT SHEET

EIRL ITEM 1

KSRB 5-14: Providing and constructing load bearing wall withsolid concrete blocks having block density not less than 1800 kg/m3 having a minmum average compressive strength of 4 n/mm2 confirming to is 2185 (part 1) :2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials labour charges , scaffoding , curing hire charges of machineries etc., complete as per specification .KBS NO5.4. 5.26.1- do - with solid concrete blocks of size 400x200x200mm 26/6/23, 27/6/23

Sl No	Chainage From	Chainage To	Unit	Nos	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
	Stretch : From CHIKKBOMMSANDRA JUNCTION TO DAIRY CIRCLE JUNCTION - LHS											
	TREE PITS - 12 Nos (1109 to 1992)		Sqm	12	2.00	1.30				0.20	6.24	
			Sqm	12	2.00	1.50				0.20	7.20	
	For Shoulder Drains (1510 to 1730)											
	Stretch : From CHIKKBOMMSANDRA JUNCTION TO DAIRY CIRCLE JUNCTION - LHS											
	Shoulder Drain		Sqm	14	2	3.00				0.30	25.20	
	Stretch : From CHIKKBOMMSANDRA JUNCTION TO DAIRY CIRCLE JUNCTION - RHS											
	TREE PITS - 44 Nos (1109 to 1992)		Sqm	44	2.00	1.30				0.20	22.88	
			Sqm	44	2.00	1.50				0.20	26.40	
	Stretch : From Vishnu Park to Sandeep Unnikrishnan Road											
			Sqm	1	1.00	4.92				0.20	0.98	
			Sqm	1	1.00	5.92				0.20	1.18	
			Sqm	1	1.00	3.60				0.20	0.72	
			Sqm	1	1.00	3.60				0.20	0.72	
			Sqm	1	1.00	4.95				0.20	0.99	
			Sqm	1	1.00	4.14				0.20	0.83	
			Sqm	1	1.00	8.93				0.20	1.79	
			Sqm	1	1.00	2.40				0.20	0.48	
			Sqm	1	1.00	9.42				0.20	1.88	
			Sqm	1	1.00	5.54				0.20	1.11	
			Sqm	1	1.00	6.96				0.20	1.39	
	0 to 280 m -RHS		Sqm	1	1.00	5.52				0.20	1.10	
			Sqm	1	1.00	4.29				0.20	0.86	
			Sqm	1	1.00	6.48				0.20	1.30	
			Sqm	1	1.00	5.05				0.20	1.01	
			Sqm	1	1.00	5.49				0.20	1.10	
			Sqm	1	1.00	2.66				0.20	0.53	
			Sqm	1	1.00	2.70				0.20	0.54	
			Sqm	1	1.00	2.70				0.20	0.54	
			Sqm	1	1.00	3.60				0.20	0.72	
			Sqm	1	1.00	3.60				0.20	0.72	
			Sqm	1	1.00	9.91				0.20	1.98	
			Sqm	1	1.00	7.20				0.20	1.44	
			Sqm	1	1.00	6.15				0.20	1.23	
			Sqm	1	1.00	4.70				0.20	0.94	
			Sqm	1	1.00	4.07				0.20	0.81	
			Sqm	1	1.00	5.84				0.20	1.17	
			Sqm	1	1.00	3.95				0.20	0.79	
			Sqm	1	1.00	5.30				0.20	1.06	
			Sqm	1	1.00	3.00				0.20	0.60	
	0 to 280 m -LHS		Sqm	1	1.00	4.24				0.20	0.85	
			Sqm	1	1.00	4.24				0.20	0.85	
			Sqm	1	1.00	4.24				0.20	0.85	
			Sqm	1	1.00	4.24				0.20	0.85	
			Sqm	1	1.00	7.15				0.20	1.43	

AEE (Project)

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CF 123.18

EIRL ITEM 1

KSRB 5-14: Providing and constructing load bearing wall withsolid concrete blocks having block density not less than 1800 kg/m3 having a minmum average compressive strength of 4 n/mm2 confirming to is 2185 (part 1) :2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials labour charges , scaffoding , curing hire charges of machineries etc., complete as per specification .KBS NO5.4. 5.26.1- do - with solid concrete blocks of size 400x200x200mm

27/6/23

Sl No	Chainage		Unit	Nos	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
	From	To										
			Sqm	1	1.00	4.92				0.20	0.98	
			Sqm	1	1.00	7.46				0.20	1.49	
			Sqm	1	1.00	3.94				0.20	0.79	
Total Quantity			Sqm								126.52	

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BRUHAT BENGALURU MAHANAGAR PALIKE

WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION

EIRL ITEM 2 MEASUREMENT SHEET

Supplying HDPE pipes confirming to IS 4984 1995 with latest amendments and conveying to work site including loading and unloading at both destination and rolling, lowering into trenches, laying true to line and joining of pipes and specials including encasing the pipe around to a depth of not less than 15cm with soft gravel or selected earth available from the excavation etc., complete, giving hydraulic test as per relevant ISS with all lead and lift including testing and commissioning. The rate is exclusive of required specials and fittings etc., complete (Contractor will make his own arrangement for procuring water for testing) 200mm dia for Power Complete including all lead and lifts and as per the directyions of engineer in charge. (HDPE Grade - PE100 confirming to IS 4984-1995) PN 6.0 Consider BWSSB SR 2014-15 P 48, Item 1.B.7

29/4/23 4/5/23

Sl No	Chainage From	Chainage To	Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
	For HDPE Pipe										
Stretch : From Vishnu Park to Sandeep Unnikrishnan Road -LHS											
1	0.00	10.00	Rmt	2.00	10.00					20.00	
2	10.00	20.00	Rmt	2.00	10.00					20.00	
3	20.00	30.00	Rmt	2.00	10.00					20.00	
4	30.00	40.00	Rmt	2.00	10.00					20.00	
5	40.00	50.00	Rmt	2.00	10.00					20.00	
6	50.00	60.00	Rmt	2.00	10.00					20.00	
7	60.00	70.00	Rmt	2.00	10.00					20.00	
8	70.00	80.00	Rmt	2.00	10.00					20.00	
9	80.00	90.00	Rmt	2.00	10.00					20.00	
10	90.00	100.00	Rmt	2.00	10.00					20.00	
11	100.00	110.00	Rmt	2.00	10.00					20.00	
12	110.00	120.00	Rmt	2.00	10.00					20.00	
13	120.00	130.00	Rmt	2.00	10.00					20.00	
14	130.00	140.00	Rmt	2.00	10.00					20.00	
15	140.00	150.00	Rmt	2.00	10.00					20.00	
16	150.00	160.00	Rmt	2.00	10.00					20.00	
17	160.00	170.00	Rmt	2.00	10.00					20.00	
18	170.00	180.00	Rmt	2.00	10.00					20.00	
19	180.00	190.00	Rmt	2.00	10.00					20.00	
20	190.00	200.00	Rmt	2.00	10.00					20.00	
21	200.00	210.00	Rmt	2.00	10.00					20.00	
22	210.00	220.00	Rmt	2.00	10.00					20.00	
23	220.00	230.00	Rmt	2.00	10.00					20.00	
24	230.00	240.00	Rmt	2.00	10.00					20.00	
25	240.00	250.00	Rmt	2.00	10.00					20.00	
26	250.00	260.00	Rmt	2.00	10.00					20.00	
27	260.00	270.00	Rmt	2.00	10.00					20.00	
28	270.00	280.00	Rmt	2.00	10.00					20.00	
	Deduct chambers		rmt	-3.00	1.50					-4.50	
										-555.50	
Stretch : From Vishnu Park to Sandeep Unnikrishnan Road -RHS											
1	0.00	10.00	Rmt	2.00	10.00					20.00	
2	10.00	20.00	Rmt	2.00	10.00					20.00	
3	20.00	30.00	Rmt	2.00	10.00					20.00	
4	30.00	40.00	Rmt	2.00	10.00					20.00	
5	40.00	50.00	Rmt	2.00	10.00					20.00	
										665.50	

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Sl No	Chainage From	Chainage To	Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
6	50.00	60.00	Rmt	2.00	10.00					20.00	
7	60.00	70.00	Rmt	2.00	10.00					20.00	
8	70.00	80.00	Rmt	2.00	10.00					20.00	
9	80.00	90.00	Rmt	2.00	10.00					20.00	
10	90.00	100.00	Rmt	2.00	10.00					20.00	
11	100.00	110.00	Rmt	2.00	10.00					20.00	
12	110.00	120.00	Rmt	2.00	10.00					20.00	
13	120.00	130.00	Rmt	2.00	10.00					20.00	
14	130.00	140.00	Rmt	2.00	10.00					20.00	
15	140.00	150.00	Rmt	2.00	10.00					20.00	
16	150.00	160.00	Rmt	2.00	10.00					20.00	
17	160.00	170.00	Rmt	2.00	10.00					20.00	
18	170.00	180.00	Rmt	2.00	10.00					20.00	
19	180.00	190.00	Rmt	2.00	10.00					20.00	
20	190.00	200.00	Rmt	2.00	10.00					20.00	
21	200.00	210.00	Rmt	2.00	10.00					20.00	
22	210.00	220.00	Rmt	2.00	10.00					20.00	
23	220.00	230.00	Rmt	2.00	10.00					20.00	
24	230.00	240.00	Rmt	2.00	10.00					20.00	
25	240.00	250.00	Rmt	2.00	10.00					20.00	
26	250.00	260.00	Rmt	2.00	10.00					20.00	
27	260.00	270.00	Rmt	2.00	10.00					20.00	
28	270.00	280.00	Rmt	2.00	10.00					-4.50	
	Deduct chambers		rmt	-3.00	1.50						
								TOTAL		1111.00	

118
655.50

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BRUHAT BENGALURU MAHANAGAR PALIKE

WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION

EIRL ITEM 3 **MEASUREMENT SHEET**

Supplying and drawing Flexible Multicore Cable manufactured with electrolytic grade flexible copper with low conductor confirming to IS:8130-1984 and (Virgin) PVC insulation sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 3C X 1.5Sq.mm

Sl No	Chainage		Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
	From	To									
Stretch : From Vishnu Park to Sandeep Unnikrishnan Road -LHS											
1	12 poles		Mtr	12.00	6.00					72.00	
Stretch : From Vishnu Park to Sandeep Unnikrishnan Road -RHS											
2	12 poles		Mtr	12.00	6.00					72.00	
								TOTAL		**144.00**	

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WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION
EIRL ITEM 6 **MEASUREMENT SHEET**

Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (V-1,P.No.17, I.No.2.4.2 of PWD SR 2021-22)

10/10/23

Sl No	Chainage		Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
	From	To									
	Light Pole Foundation										
	Stretch : From Vishnu Park to Sandeep Unnikrishnan Road -LHS										
	0.00	280.00	CUM	12	0.50			0.50	1.5	4.50	
	Stretch : From Vishnu Park to Sandeep Unnikrishnan Road -RHS										
	0.00	280.00	CUM	12	0.50			0.50	1.5	4.50	
								TOTAL		**9.00**	

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WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION

MEASUREMENT SHEET

EIRL ITEM 7

Earth work excavation for cable trench of 0.3 to 0.5 Mtr. Width and Depth upto 1 Mtr including trial pits, depositing on bank upto a lead of 50 Mtr, Supplying and Displaying necessary Danger Boards and Lighting, Using sight Rails and Sign Boards at every 100 Mtr wherever necessary as directed.In Ordinary Soil.

25/9/23

Sl No	Chainage		Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
	From	To									
Stretch : From Vishnu Park to Sandeep Unnikrishnan Road -LHS											
POLE											
1	0'	280.00	Cum	12.00	1.00			1.00	1.50	18.00	
Cable											
1			Cum	1.00	280.00			0.45	0.60	75.60	
Stretch : From Vishnu Park to Sandeep Unnikrishnan Road -RHS											
POLE											
1	0'	280.00	Cum	12.00	1.00			1.00	1.50	18.00	
Cable											
1			Cum	1.00	280.00			0.45	0.60	75.60	
								TOTAL		**187.20**	

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WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION

MEASUREMENT SHEET

EIRL ITEM 8

Laying of cable in Existing Trench/GI pipe/Stone Ware/RCC Hume pipe using Wooden/Aluminum Rollers as directed by the departmental staff LT Cable.2.5 to 25 Sqmm.

27/9/23

Sl No	Chainage From	Chainage To	Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
Stretch : From Vishnu Park to Sandeep Unnikrishnan Road -LHS											
Cable											
1			Km	1	0.03					0.03	
2			Km	1	0.03					0.03	
3			Km	1	0.03					0.03	
4			Km	1	0.03					0.03	
5			Km	1	0.03					0.03	
6			Km	1	0.03					0.03	
7			Km	1	0.03					0.03	
8			Km	1	0.03					0.03	
9			Km	1	0.03					0.03	
10			Km	1	0.03					0.03	
11			Km	1	0.025					0.03	
Stretch : From Vishnu Park to Sandeep Unnikrishnan Road -RHS										0.33	
Cable											
1			Km	1	0.03					0.03	
2			Km	1	0.03					0.03	
3			Km	1	0.03					0.03	
4			Km	1	0.03					0.03	
5			Km	1	0.03					0.03	
6			Km	1	0.03					0.03	
7			Km	1	0.03					0.03	
8			Km	1	0.03					0.03	
			Km	1	0.03					0.03	

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Sl No	Chainage		Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
	From	To									
10			Km	1	0.03					0.03	
11			Km	1	0.025					0.03	
								TOTAL		0.65	

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BRUHAT BENGALURU MAHANAGAR PALIKE
WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION
EIRL ITEM 9 MEASUREMENT SHEET

Refilling the cable trenches with selected available earth from trench excavation including watering, consolidation in layers of 15 cm. Thickness including depositing of the surplus earth with a lead of 200 Mtr 29/9/23

Sl No	Chainage From	Chainage To	Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
Stretch : From Vishnu Park to Sandeep Unnikrishnan Road -LHS											
Cable											
1			Cum	1.00	280.00			0.45	0.60	75.60	
Stretch : From Vishnu Park to Sandeep Unnikrishnan Road -RHS											
Cable											
1			Cum	1.00	280.00			0.45	0.60	75.60	
								TOTAL		**151.20**	

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WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION
MEASUREMENT SHEET

EIRL ITEM 10

Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.

16/10/23

Sl No	Chainage From	Chainage To	Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
Stretch : From Vishnu Park to Sandeep Unnikrishnan Road -LHS											
1	0'	280.00	Each	24.00						24.00	
Stretch : From Vishnu Park to Sandeep Unnikrishnan Road -RHS											
2	0'	280.00	Each	24.00						24.00	
								TOTAL		**48.00**	

16/10/23

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WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION

EIRL ITEM 11 **MEASUREMENT SHEET**

Fabricating, Supplying and errection of decorative Zig- Zag bent type Street light pole with hot dip Galvanized with BSEN 10025 grade S 355 JO Steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet for MCBs as per IS Specifications.suitable to with stand the wind speed. The total height of the pole 7 mtrs towards road and 5 Mtrs footpath.between the pole V shaped MS/any decorativ laser cutting jolly work The pole should have 2 nos of pole esthetically bent either side. The dimensions of the pole bottom square pipr of 175x175x4mmx2 Mtrs length and above 2 mtrs a dia of 76.1x3.25mmx5Mtrs and 3 Mtrs, as suitable to the Drawing and picture. The base plate size of 350mm x 350mm x 16 mm the pole shall be galvanized with not less than 65 micron etc and finally finished with PU paint as required with two different colour. (With out foundation). As per the enclosed Drawing ,pictures and IS standards compleet set includes templat 4 nos M20 x750mm anchor bolts.

16/10/23

Sl No	Chainage		Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
	From	To									
Stretch : From Vishnu Park to Sandeep Unnikrishnan Road -LHS											
1	0'	280.00	Nos	12.00						12.00	
Stretch : From Vishnu Park to Sandeep Unnikrishnan Road -RHS											
2	0'	280.00	Nos	12.00						12.00	
								TOTAL		24.00	

16/10/23

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20/12/24

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WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION

MEASUREMENT SHEET

EIRL ITEM 12

Supllying of1.1 kV, XLPE or Heat resistant PVC insulated, PVC exutruted Inner Seath Armoured LTUG Cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness and resistivity as per IS-3975 25 Sqmm, 4 Core, (13 GI Strips - 4 x 0.8 mm)

27/9/2023

Sl No	Chainage From	Chainage To	Unit	Nos	Length	B1	B2	Avg Breadth	Avg Depth	Quantity	Remarks
Stretch : From Vishnu Park to Sandeep Unnikrishnan Road -LHS											
Cable											
1			Km	1	0.03					0.03	
2			Km	1	0.03					0.03	
3			Km	1	0.03					0.03	
4			Km	1	0.03					0.03	
5			Km	1	0.03					0.03	
6			Km	1	0.03					0.03	
7			Km	1	0.03					0.03	
8			Km	1	0.03					0.03	
9			Km	1	0.03					0.03	
10			Km	1	0.03					0.03	
11			Km	1	0.025					0.03	
Stretch : From Vishnu Park to Sandeep Unnikrishnan Road -RHS											
Cable											
1			Km	1	0.03					0.03	
2			Km	1	0.03					0.03	
3			Km	1	0.03					0.03	
4			Km	1	0.03					0.03	
5			Km	1	0.03					0.03	
6			Km	1	0.03					0.03	
7			Km	1	0.03					0.03	
8			Km	1	0.03					0.03	
9			Km	1	0.03					0.03	
10			Km	1	0.03					0.03	
11			Km	1	0.025					0.03	
								TOTAL		0.65	

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A.E.E. (Project)

Checked
27/9/23
A.E.E. (Project)

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